Sensors Enable Plants to Text Message Farmers



Marshall Space Flight Center

AgriHouse Berthoud, CO

NASA Technology

- Astronauts living in space for extended periods of time, like those on deep-space missions, will need to grow their own food.
- As resources in space are severely limited and costly, systems that maximize efficiency will make long-term space flight possible.

Technology Transfer

- AgriHouse partnered with BioServe Space
 Technologies, recipient of Small Business Innovation
 Research (SBIR) funding, to develop sensors that
 use electrical pulses to determine when a plant loses
 its rigidity to the point where it needs water.
- In a laboratory test, the new system decreased water usage by between 25 and 45 percent.



Benefits

- The technology will allow farmers in the waterscarce West to conserve their resources.
- AgriHouse sees a future where farmers can receive text messages on their plants' health.
- While current users are researchers, MBA students are working on business models to expand the product's reach in the market.